



BIOLOGY >> Biodiversity (Acellular Life/Variety of Life)

Q 1

The phage which causes lysis of the host cell is known as?

A

Lytic Phage

B

Lysogenic phage

C

Prophage

D

Bacteriophage

< Previous Question

Next Question >

Q 2

The complex that forms when a substrate binds to enzyme is called?

A

enzyme-substrate complex

B

enzyme complex

C

substrate complex

D

structural complex

1

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 3

In sexual reproduction, plants have diplohaplontic life cycle with alternating?

A

Haploid sporophyte and diploid gametophyte generations

B

Diploid sporophyte and diploid gametophyte generations

C

Haploid sporophyte and haploid gametophyte generations

D

Diploid sporophyte and haploid gametophyte generations

2

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 4

Which statement is correct?

A

In heteromorphic generations are vegetatively dissimilar

B

In isomorphic generations are vegetatively similar

C

In isomorphic generations are vegetatively dissimilar

D

both a and b

3

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 5

When resources gets scarce, the population growth?

A

becomes fast

B

slows down

C

remains same

D

none of these

4

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 6

All the animals of the grade radiata are which of the following?

A

Unicellular

B

Triploblastic

C

both a and b

D

Diploblastic

5

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 7

Which of the following is made up of an afferent pathway from a receptor and an efferent pathway to an effector?

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

6

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 8

Genes evolve due to which of the following?

A

artificial selection

B

random selection

C

gene selection

D

natural selection

7

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 9

In cocci, three plane division result in formation of sarcine which is a

A

cuba of 8 cocci

B

square of 4 cocci

C

irregular structure

D

triangular 6 cocci

8

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 10

Mumps and Measles are caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

paramyxoviruses

9

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 11 Enzyme-catalyzed modifications are?

A reversible

B irreversible

C both a and b

D none of these

SKIPPED QUESTIONS

10

< Previous Question

Next Question >

Q 12 Which of the following is not respiration?

A Breakdown of glucose

B Formation of glucose

C Release of energy

D Exchange of gases

11

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 13 Which reaction is catalyzed by the enzyme RuBisCO?

- A carboxylation of ribulose biphosphate (RuBP)
- B conversion of triose phosphate (TP) to ribulose phosphate (RuP)
- C oxidation of glycerate-3-phosphate (GP)
- D reduction of glycerate-3-phosphate (GP)

12

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 14

The human naked eye can differentiate between two points which are how much apart?

A

1 mm

B

0.1 mm

C

2 nm

D

1 dm

13

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 15

The animals in which coelom is formed due to splitting of mesoderm are known as which of the following?

A

Pseudocoelom

B

Enterocoelous

C

Amphicoelous

D

Schizocoelous

14

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 16

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

15

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 17

The absorption of water through a compound without dissolving in it is known as:

A

ascent of sap

B

plasmolysis

C

imbibition

D

guttation

16

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 18

Monosynaptic reflex arc consists of:

A

One sensory neuron only

B

One motor neuron only

C

two neurons, one sensory neuron, and one motor neuron

D

None of these

17

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 19

Which of the following proteins does not play a functional role in creating the force-tension curve of muscle contraction?

A

titn

B

myosin

C

actin

D

all of these

18

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 20

Which of the following has a morphology of a helical virus?

A

TMV

B

T4 Phage

C

Poxvirus

D

Herpes virus

19

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 21 How can hepatitis be controlled?

A Adopting hygienic measures

B Routine vaccinations

C Screening of organ donors

D all of the above

SKIPPED QUESTIONS

20

< Previous Question

Next Question >

Q 22

Which one of the following animals is not a tetrapod?

A

snake

B

cow

C

mantis shrimp

D

human

21

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 23

Viruses are limited in their host range because?

A

can only replicate in certain types of cells

B

certain cells are susceptible to viral infections

C

They can only enter cells that have proper/specific receptors

D

They can only enter cells with glycoproteins

22

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 24

Cell wall of a bacteiral cell is more permeable in

A

gram possitive bacteria

B

gram negative bacteria

C

both a & b

D

mycoplasmas

23

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 25

The main purpose of the early viral genes that are expressed is to?

A

take over the host machinery

B

synthesize nucleic acids

C

to remove coat of the virus

D

Both A and B

24

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 26

The cellular structure of a plant cell consists of which non-living component?

A

nucleus

B

cell wall

C

cell membrane

D

all of these

25

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 27

Which of the following contains genes for drug and disease resistance in bacteria?

A

plasmid

B

nucleotide

C

mesosome

D

all of these

26

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 28

The respiratory disorder in which cells division takes place without any control and causes tumors is known as

A

emphysema

B

asthma

C

Lung cancer

D

bronchitis

27

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 29

The ETC in plants consists of an electron carrier called?

A

Pq

B

Pc

C

Pt

D

Po

28

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 30

The element in basic structure of proteins which differentiate them from carbohydrates is?

A

C

B

H

C

N

D

none of these

29

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 31 The sperm duct opens into which of the following?

A ureter

B urethra

C testes

D all of these

30

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 32

Robert Koch discovered bacteria that cause

A

Tuberculosis and Typhoid

B

Tuberculosis and Measels

C

Tuberculosis and Cholera

D

All of Above

31

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 33

Which characteristic is least likely to affect an organism's biological fitness in the tundra?

A

Exothermic versus endothermic regulation

B

size

C

fur

D

Nocturnal versus diurnal activity

32

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 34

The epiglottis, a flap of tissues covers the

A

pharynx

B

larynx

C

glottis

D

nasal cavity

33

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 35

In cell fractionation various components of cells including its organelles can be isolated in different layers depending upon?

- A Their physical properties like size & weight
- B Physical properties of the medium like its density.
- C Their electrical properties like their charges
- D both a and b

34

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 36

Final acceptor of electrons in respiratory chain is?

A

NADH

B

Cytochrome a3

C

water

D

oxygen

35

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 37 cytochrome a is oxidised by which of the following in ETC?

A carbon dioxide

B oxygen

C ATP

D cytochrome a3

36

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 38

Which lobe is the back part of the brain that is involved with vision?

A

Frontal

B

Parietal

C

Temporal

D

Occipital

37

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 39

The sarcoplasmic reticulum is a special type of endoplasmic reticulum. Based on this information, which of the following is associated with a sarcoplasmic reticulum?

A Network of tubules

B vesicles

C digestive enzymes

D both a and b

38

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 40 Sperms are developed at what temperature?

A lower than body temperature

B higher than body temperature

C body temperature

D all of these

39

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 41

Which product is formed when carbon dioxide combines with amino group of haemoglobin?

A

Carboxyhemoglobin

B

Plasma proteins

C

Bicarbonate ions

D

Histamines

40

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 42

Which one of the following statements about enzymes is not true?

A

They are sensitive to heat

B

They consist of proteins or without a non-proteins part

C

They change the rate of catalyzed reaction

D

They are non-specific in their action

41

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 43

The sites where nerve impulse is transmitted from the nerve endings to the skeleton muscle cell membranes are the?

A

z discs

B

dendrites

C

sarcomeres

D

neuromuscular junctions

42

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 44

Skin colour in man is controlled by how many pairs of genes?

A

1

B

2

C

3

D

none of these

43

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 45

Golgi complex is responsible for the formation of secretory granules in _____ cell.

A

Stomach

B

Liver

C

Pancreatic

D

Muscle

44

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 46

Concept of evolution was first presented by which of the following scientists?

A

Lamark

B

Darwin

C

Wallace

D

Aristotle

45

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 47 Which of the following is true about muscle structure?

- A Myofibrils make up about 15% of the contents of a muscle fibre.
- B Actin filaments are arranged so that 6 actin filaments surround each myosin filament.
- C Both A and B are correct
- D None of these

46

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 48

These are crystalline, water soluble, forming pyranose rings

A

monosaccharides

B

disaccharides

C

oligosaccharides

D

polysaccharides

47

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 49

Transverse diffusion (flip-flop) is the movement of which of the following molecules?

A

cholesterol molecule

B

amino acid

C

protein

D

phospholipid

48

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 50

Example of convergent evolution is

A

forelimbs of man and bat

B

wings of birds and insects

C

Darwin's finches

D

all of above

49

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 51 True breeding variety is produced by which of the following?

A Cross fertilization

B Self fertilization

C both a and b

D none of these

SKIPPED QUESTIONS

50

< Previous Question

Next Question >

Q 52

The affect of competitive inhibitor on enzyme activity is such that it effects which of the following?

A

increases enzyme activity

B

doesn't change enzyme activity

C

decreases enzyme activity

D

none of these

51

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 53

The left side of the body is controlled by:

A

left cerebral hemisphere

B

right cerebral hemisphere

C

Hippocampus

D

Corpus callosum

52

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 54

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

53

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 55

_____ refers to the breakdown or removal of the capsid

A

assembly

B

uncoating

C

integration

D

maturation

54

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 56

Which term refers to the formation of egg cells that begins in the developing ovaries of a female fetus?

A

Meiosis

B

Fertilization

C

Ovulation

D

Oogenesis

55

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 57

The flow of sap from cut plants is :

A

bleeding

B

plasmolysis

C

imbibition

D

guttation

56

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 58

In a certain flower, a blue petal phenotype is dominant to a white petal phenotype. If you cross a heterozygous flower with a homozygous recessive flower, what is the probability of inheritance for the white petal phenotype?

A

25%

B

50%

C

75%

D

1

57

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 59

Which of the following is not a sterilization method for the control of bacteria?

A

radiation

B

filtration

C

high temperature

D

antiseptics

58

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 60

Saponification number referred as

A

mg of KOH required to saponify one gm of fat or oil

B

mg of KOH required to neutralize free fatty

C

mg of KOH required to neutralize the acetic

D

None of these

59

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 61

Which of the following is NOT an example of evidence supporting the endosymbiotic theory?

A

Mitochondria and other plastids multiply by binary fission.

B

Mitochondria contain their own DNA, which is a single circular chromosome.

C

Mitochondria have their own ribosomes, which are 70s.

D

none of these

60

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 62

The flap like structure found in larynx is called:

A

glottis

B

epiglottis

C

larynx

D

vocal cords

61

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 63

Which of the following is NOT a class of enzyme?

A

ligase

B

hydrolyse

C

isomerase

D

pyrimidine complex

62

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 64 Which of the following is true about muscle fibres?

- A better adapted for slow sustained activities
- B for energy, they depend on anaerobic procedures
- C myoglobin content is high
- D possess mitochondria in huge numbers

63

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 65

The part of chlorophyll molecule is embedded in the core of thylakoid membrane which is?

A

Hydrophilic

B

Hydrophobic

C

both of these

D

none of these

64

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 66

Phylum Porifera is classified based on which of the following characteristic?

A

branching

B

symmetry

C

spicules

D

reproduction

65

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 67

Damage to one of the following immediately kills the cell whether its prokaryotic or eukaryotic?

A

nucleus

B

cell membrane

C

mitochondria

D

all of these

66

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 68

Acetyl CoA completely oxidizes to Carbon dioxide and liberate ____

A

NADH and FADH

B

NADP and FADP

C

ATP

D

ATP, NADH and FADH₂

67

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 69

The SI unit of power is?

A

Hz

B

Sec

C

Watt

D

Joules

68

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 70

The object oscillates due to:

A

a restoring force

B

its weight

C

centripetal force

D

force of friction

69

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 71

In a stationary wave, the distance between a node and an adjacent antinodes is equal to:

A

 λ

B

 2λ

C

 $\lambda/2$

D

 $\lambda/4$

70

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 72

Electric power is

A

rate of electric work done per unit time

B

voltage per unit time

C

electric charge per unit time

D

current per unit time

71

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 73

Which one of the following is a photoconductor?

A

silver

B

gold

C

selenium

D

mercury

72

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 74

Radioactive radiations are used to destroy

A

healthy cells

B

cancerous cells

C

bacteria

D

damaged organs

73

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 75

Velocity is defined as:....

A

distance divided by the time during which the displacement occurs

B

distance travelled in a specific direction

C

displacement divided by the time during which the displacement occurs

D

displacement travelled in a specific direction

74

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 76

What is the strength of magnetic field known as _____

A

flux

B

density

C

magnetic strength

D

magnetic flux density

75

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 77

The value of Boltzmann's constant, k_B , is:

A

 $8.314 \text{ J/mol}^\circ\text{K}$

B

 $1.38 \times 10^{-23} \text{ J/K}$

C

 $6.63 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

D

 $1.6 \times 10^{-19} \text{ C}$

76

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 78

Which of the following is equivalent to a temperature 150K?

A

123 C

B

-123 C

C

423 C

D

-423 C

77

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 79

Weber is the unit of_____

A

magnetic flux

B

electric flux

C

both a or b

D

none of these

78

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 80

Half wave rectifier has _____ diodes

A

1

B

2

C

3

D

4

79

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 81

The relation between linear and angular velocity is:

A

$$\mathbf{v} = \mathbf{r} \times \boldsymbol{\omega}$$

B

$$\mathbf{v} = \boldsymbol{\omega} \times \mathbf{r}$$

C

$$\boldsymbol{\omega} = \mathbf{v} \times \mathbf{r}$$

D

$$\mathbf{r} = \mathbf{v} \times \boldsymbol{\omega}$$

80

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 82

Inertial frame has :

A

Constant velocity

B

Zero velocity

C

Zero acceleration

D

All of these

81

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 83

Consider a drop of water of mass 1 gm falling from a height of 1 km. It hits the ground with a speed of 50 m/s, take $g = 10 \text{ m/s}^2$. the work done by gravitational force is

A 1.25 J

B 100 J

C 10 J

D -10 J

82

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 84

The hot resistance of the bulb's filament is higher than its cold resistance because the temperature coefficient of the filament is

A

Zero

B

Negative

C

Positive

D

About 2 ohms per degree

83

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 85 For currents changing with time will produce___ field

A electrostatic

B magnetostatic

C electromagnetic

D none of these

84

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 86

Which of this is constant in adiabatic process

A

total heat

B

work done

C

Entropy

D

both a) and c)

85

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 87

If a proton, alpha particle and photon moving with same velocity enter in uniform magnetic field then which particle will deflect more

A proton

B alpha particle

C photon

D all of these

86

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 88

An electric filament bulb can be worked from

A

D.C. supply only

B

A.C. supply only

C

Battery supply only

D

All above

87

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 89 _____ is often used to cure skin cancer

A cobalt-60

B radon gas

C iodine-131

D strontium-90

88

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 90

If a transverse wave travelling in a denser medium is incident on a rarer medium, it is ...

A reflected without any change in phase

B reflected with phase change of 90 deg

C reflected with phase change of 180 deg

D reflected with phase change of 270 deg

89

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 91

Spectra corresponding to sodium vapour lamp is

A

band spectra

B

line spectra

C

emission spectra

D

absorption spectra

90

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 92

A circular loop of radius 2 m placed having area in the direction of magnetic field of 100 T, flux will be

A

1296 wb

B

12.96 wb

C

1190 wb

D

1426 wb

91

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 93

A liquid has specific heat capacity c . The rate of change in temperature of liquid is R . The rate at which heat is transferred from the liquid is P . What is the mass of the liquid?

A $P = cR$

B $PR = c$

C $Pc = R$

D cPR

92

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 94

The use of a capacitor filter in a rectifier circuit gives satisfactory performance only when the load

A

Current is high

B

Current is low

C

Voltage is high

D

Voltage is low

93

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 95

Henry is unit of

A

self inductance only

B

mutual inductance

C

both a) and b)

D

emf

94

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 96

Four wires of same material, the same cross-sectional area and the same length when connected in parallel give a resistance of 0.25 ohms. If the same four wires are connected in series the effective resistance will be

A 1 ohm

B 2 ohm

C 3 ohm

D 4 ohm

95

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 97

The wavelength of beta rays is measured by

A

interference

B

polarization

C

absorption

D

diffraction

96

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 98

In a standing waves, the distance between a node and consecutive anti-node is:

A

equal to one wavelength

B

equal to two wavelength

C

equal to half of wavelength

D

equal to quarter of wavelength

97

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 99

A gas expands from V_1 to V_2 . The amount of work done is greatest in

A

Adiabatic

B

Isobaric

C

Isochoric

D

Isothermal

98

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 100

What is the measure in radians of the angle $A = 330^\circ$?

A

 $11\pi/3$

B

 $7\pi/4$

C

 $7\pi/6$

D

 $11\pi/6$

99

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 101

Energy of photon is directly proportional to its :

A

Temperature

B

Frequency

C

Wave length

D

None of the above

100

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 102

average velocity is defined as

A

displacement/time

B

distance/time

C

distance*time

D

displacement*time

101

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 103

Average dc Voltage across the load in terms of V_{max} is

A

 $0.532 V_{max}$

B

 $0.637 V_{max}$

C

 $0.759 V_{max}$

D

 $0.437 V_{max}$

102

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 104

What is the frequency of a photon whose energy is 66.3 eV

A

 $12.6 \times 10^6 \text{ Hz}$

B

 $19.6 \times 10^6 \text{ Hz}$

C

 $1.6 \times 10^{16} \text{ Hz}$

D

 $81.6 \times 10^6 \text{ Hz}$

103

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 105

Sun spectra also has dark lines in pattern which corresponds to

A absorption

B emission

C release

D free particle

104

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 106

Electric charge in uniform motion produces

A

electric field

B

magnetic field

C

both of these

D

none of these

105

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 107

What is the phase difference between the center of compression and the center of rarefaction in longitudinal wave.

A

0 deg

B

45 deg

C

90 deg

D

180 deg

106

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 108

Work is said to be done when a body move through certain distance by the action of

A energy

B force

C momentum

D power

107

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 109

Ohm's law is true for

A

Metallic conductors at low temperature

B

Metallic conductors at high temperature

C

For electrolytes, when current passes through them

D

For diode when current flows

108

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 110

Identify the factor on which mutual inductance does not depend.

A

relative orientation

B

relative separation of two coils

C

reciprocity

D

permeability of the core material

109

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 111

Which water is used to reduce the speed of fast moving neutrons

A

Salty water

B

Pure water

C

heavy water

D

muddy water

110

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 112

An ideal gas of n moles is enclosed in a container at a constant pressure p . The graph between volume of gas and its absolute temperature is a straight line. What is the gradient of the graph?

A $n R \text{ ----- } p$

B $n R P$

C $n \text{ ---- } R P$

D $n p \text{ ----- } R$

111

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 113 Angular displacement becomes zero when

- A velocity is zero
- B radial distance is zero
- C any of a or b
- D it can never be zero

112

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 114

A constant force is applied on a body of 2 kg to give it a displacement $s = t^2/2$. Work done by agent applying the force upto time $t=3$ sec is

A

3 J

B

9 J

C

18 J

D

2 J

113

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 115

How much energy is required to raise the temperature of 5.00 kg of lead from 20.0°C to its melting point of 327°C? The specific heat of lead is 128 J/kg °C.

A $1.96 \times 10^5 \text{ J}$ B $4.04 \times 10^5 \text{ J}$ C $1.07 \times 10^5 \text{ J}$ D $8.15 \times 10^4 \text{ J}$

114

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 116

Emf produced in generator is

A

 $N\omega AB \cos(\omega t)$

B

 $N\omega AB \tan(\omega t)$

C

 $N\omega AB \cot(\omega t)$

D

 $N\omega AB \sin(\omega t)$

115

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 117

_____ are such nuclei of an element that have the same mass number A , but have different charge number Z

A isotopes

B isobars

C isomers

D isotherms

116

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 118

A pipe is open at both ends. A stationary wave is formed in the air of the pipe. Which statement is true:

A

there is always a central antinode

B

there is always a central node

C

the sum of number of nodes and the number of antinodes is always an even number

D

the sum of number of nodes and the number of antinodes is always an odd number

117

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 119

How many milligrams of tritium will remain after 49.2 years if the starting amount is 32 mg? The half-life of tritium is 12.3 years

A

8mg

B

2mg

C

1mg

D

4mg

118

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 120

Half wave voltage multiplier can provide any degree of voltage multiplication by cascading diodes and capacitors.

A any doubler

B any tripler

C any multiplication

D none of them

119

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 121 Steady current does not change with respect to _____.

A conductor

B source

C time

D potential difference

120

SKIPPED QUESTIONS 

[< Previous Question](#)

[Next Question >](#)

Q 122

The x-ray photon is uncertain when it is

A

emitted

B

absorbed

C

traveling

D

all of these

121

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 123

If the clouds of earth behaves like a black body what will happen

A

no light will reach on surface

B

extra light will reach the surface

C

nothing will happen

D

some will reflect some will absorbed

122

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 124

When a stone is thrown horizontally with 2 m/s from a building of height 5 m then just before hitting ground its acceleration is

A 12 m/s^2

B 13 m/s^2

C 9.8 m/s^2

D 7.6 m/s^2

123

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 125

The gas laws describes the _behavior of gases

A

abrupt

B

non-uniform

C

uniform

D

disordered

124

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 126 Metallic character depends on_____?

A Electron Affinity

B Ionization energy

C Electronegativity

D All of these

125

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 127

The force which holds the atoms within the molecule is called as _____?

A

Intermolecular force

B

Chemical bond

C

London force

D

Polar force

126

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 128

Positive rays are produced when _____ strike the molecules of a gas in a discharge tube

A

low speed neutrons

B

high speed neutrons

C

low speed electrons

D

high speed electrons

127

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 129

When rate of reaction is measured by the amount of radiation absorbed it is called

A

Optical Rotation method

B

Electrical Conductivity method

C

Refractometry Method

D

Spectrometry

128

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 130

Buffer solutions resist change in their

A

temperature

B

solubility

C

volatility

D

pH

129

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 131 First member of alkynes is called as _____?

A Ethylene

B Acetylene

C Acetone

D Ethene

130

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 132

What is the Hybridization of carbon atom in Aldehyde group?

A

 sp^2

B

 sp^3

C

 sp

D

 dsp^2

131

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 133

Formation of Hydrogen molecule according to VBT theory involves overlap of

A

1s orbital

B

2s orbital

C

2p orbital

D

2px orbital

132

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 134

Exothermic Reactions heat is

A

Taken in

B

Give out to surroundings

C

Neither given nor lost

D

None of these

133

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 135

The efficiency of a chemical reactions can be checked by calculating its _____ yields

A percentage

B actual

C theoretical

D all of these

134

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 136

Standard electrode Potential is denoted by

A

E

B

 E^{-1}

C

 $E^{\Delta 0}$

D

 ∂

135

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 137 Compounds having benzene ring are called as_____?

- A Alicyclic
- B Aliphatic compounds
- C Aromatic compounds
- D Acyclic compounds

136

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 138

Atomic radii can be determined by measuring the distance b/w centers of ____atoms

A

opposite .

B

adjacent

C

parallel

D

equal

137

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 139

Cleavage Plane appears when a crystal is

A

Melted

B

Broken

C

Heated

D

Cooled

138

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 140

What is the name of this compound?

A

Ethyl chloride

B

Ethene chlorine

C

Chloro ethane

D

Vinyl chloride

139

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 141

The number of charges present on a cation depends on number of electron _by the atom

A

gain

B

lost

C

accept

D

produced

140

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 142

What is the value of molecularity and order of S_N1 reactions?

A

2,1

B

1,1

C

0,1

D

0,2

141

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 143

Which one of the following is correct about heat energy?

A

Path function

B

State function

C

Move from cold to hot body

D

Property of a system

142

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 144

What is the IUPAC name of, $\text{ClCH}_2\text{CH}_2\text{COOH}$?

A

3-Chloropropanoic acid

B

2-Chloropropanoic acid

C

2-Chloro-1-propanoic acid

D

Propyl carboxylic acid chloride

143

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 145

Due to which of the following forces present in water aquatic life is protected in Cold climate ?

A

Dipole dipole forces

B

Debye forces

C

H-bonding

D

London dispersion forces

144

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 146

Half Life $\propto 1/a^{(n-1)}$ where n is

A

Number of reactant molecules

B

Number of moles of reactants

C

Number of moles of products

D

Order of Reactions

145

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 147

The shape of crystal in which it usually grows is called its

A

size

B

capacity

C

habit

D

property

146

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 148

Electron affinity of an atom is the energy released when an electron _to an empty or partially filled orbital of an atom to form ____

A removed, cation

B added, cation

C added, anion

D removed, anion

147

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 149 Carboxylic acids form dimer due to_____?

- A Small sizes
- B Polarity of C-O bond
- C H-bonding
- D Dipole-Dipole interactions

148

SKIPPED QUESTIONS 

[< Previous Question](#)

[Next Question >](#)

Q 150

Addition of 2% gypsum in cement

A

Triggers hydration

B

Triggers hydrolysis

C

Prevents rapid hardening

D

All of the above

149

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 151

Phenol is changed into cyclohexanol by the following method

A

Hydrogenation

B

Reaction with formaldehyde

C

Nitration

D

Halogenation

150

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 152

Suppression in ionization is done for

A

Weak Electrolyte

B

Strong Electrolyte

C

Only Reactants

D

Dissociated Ions

151

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 153

On which factor boiling point of a liquid does not depends?

A

External pressure

B

Vapour pressure

C

Amount of liquid

D

Intermolecular forces

152

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 154

The expression for the radius of n th orbit of hydrogen atom was derived by

A

Planks

B

Bohr

C

Rutherford

D

Einstein

153

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 155

Lactoglobulin a simple protein is found in muscles as well as in _____ too.

A

Fish

B

Liver

C

Brain

D

Plants

154

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 156

Reaction of vinyl acetylene with HCl produces?

A

Polyvinyl polymer

B

Polyvinyl Acetylene

C

Neoprene

D

Chloroprene

155

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 157

Which one of the following has highest number of unpaired electrons?

A

 Fe^{2+}

B

 Mn^{2+}

C

 Cr^{2+}

D

 Zn^{2+}

156

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 158

In which of the following reagent Cupric citrate complex is formed?

A

Fehling's solution test

B

Benedict's solution test

C

Silver mirror test

D

sodium nitroprusside test

157

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 159

The hydrolysis of urea is catalyzed by:

A

Amylase

B

Urease

C

Pectin

D

None

158

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 160

Production of Ammonia by Haber process is made economical by using

A

Law of Mass Action

B

Catalyst

C

Le chatelier's Principle

D

All of these

159

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 161 Alicyclic compounds are similar in properties to_____?

A Heterocyclic compounds

B Aliphatic compounds

C Acyclic compounds

D Aromatic compounds

160

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 162

Before giving condensation product , ammonia and its derivatives produces _____ when react with carbonyls?

A

Alcohols

B

Carboxyl alcohol

C

Amino alcohol

D

None of these

161

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 163 Instantaneous dipole is produced when _____?

- A Two polar molecules comes closer
- B Two non polar molecules comes closer
- C Polar and nonpolar molecule comes closer
- D All of these

162

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 164

Energy is absorbed

A

In Bond Breaking

B

In endothermic reactions

C

In Bond Formation

D

Both A and B

163

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 165

In energy terms, the elements at high energy state are

A

electronegative elements

B

electropositive elements

C

neutral elements

D

charged elements.

164

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 166

Non- protein part co- factor includes organic & metallic organic molecule & sometimes_____.

A

Vitamins

B

DNA

C

Coenzyme

D

None

165

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 167

The ratio of PV to T is a constant quantity I-e

A

k

B

R

C

n

D

K

166

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 168

If 9.8 g of sulfuric acid dissolved in excess quantity of water, it will yield _____ moles of hydrogen ion (H^+) and _____ mole of sulphate ions (SO_4^{2-})

A 0.1, 0.2

B 0.1, 0.3

C 0.2, 0.4

D 0.2, 0.1

167

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 169

propene exhibit

A

Cis-isomerism

B

Trans-isomerism

C

geometric isomerism

D

none

168

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 170

Which of the following has greater polarizability?

A

 N_2

B

 Cl_2

C

 O_2

D

 I_2

169

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 171

Lighter the Oxidation state of Metal more will be_____?

A

Acidity of metal

B

Polarization power

C

Basicity of metal

D

None of these

170

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 172

Which of the following is formed during S_N1 reactions?

A

Secondary carbocation

B

Primary carbocation

C

Tertiary carbocation

D

Methyl carbocation

171

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 173

The alcohols which are resistant to oxidation reactions are

A

primary alcohols

B

secondary alcohol

C

tertiary alcohol

D

all of above

172

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 174

For balancing oxygen and hydrogen atoms in acids or neutral solutions

A

Water can be added

B

 H^+ ions can be added

C

Both A and B

D

 OH^- ions can be added

173

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 175

Enzymes that catalyze the addition of ammonia, water or carbon dioxide to double bond or their removal are called _____.

A

Lyases

B

Hydrolases

C

Ligases

D

Transferases

174

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 176

An orbital can accommodate at the most _electrons

A

2

B

14

C

1

D

6

175

SKIPPED QUESTIONS



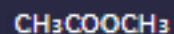
< Previous Question

Next Question >

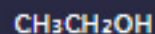
Q 177

Which of the following evolve Carbon Dioxide with sodium bicarbonate?

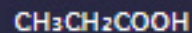
A



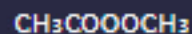
B



C



D



176

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 178

After the hydrolysis of ester the change in concentration of acid at different intervals is calculated by

A

Titration with KMnO_4

B

Titration With Standard Alkali

C

Distillation

D

Evaporation of mixture

177

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 179

What is the enthalpy of solution of NH_4Cl ?

A

15 KJ/mol

B

-17kJ/mol

C

16.2 kJ/mol

D

-16.5kJ/mol

178

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 180

According to VSEPR theory ,the repulsions are called

A

joule repulsion

B

planks repulsion

C

Van der waals repulsion

D

J.J.Thomson repulsion

179

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 181

Choose the correct sentence.

A

Does your train leave before eight o'clock?

B

Does your train leave before eight o clock?

C

does your train leave before eight o'clock

D

does your train leave before eight o'clock?

180

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 182

Spring is _____. It will be warmer soon.

A

on the way

B

to be coming

C

eventually

D

prepared now

181

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Demonstrate control of tenses and sentence structure

Q 183

She ran with quick steps to the house when it _____ (start)raining.

A

start

B

starting

C

started

D

was started

182

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Demonstrate correct use of subject-verb agreement

Q 184

One of my sisters _____ going on a trip to France.

A

is

B

are

C

has

D

have

183

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 185

I can't think of a _____ example.

A

correct

B

suitable

C

answerable

D

needed

184

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 186

My brother and sister _____ basketball every evening.

A

practises

B

practise

C

practising

D

are practising

185

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Comprehend key vocabulary

Q 187

The next-door neighbour's dog is _____ loud. He barks constantly throughout the night.

A

quite

B

quit

C

quiet

D

barely

186

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Demonstrate correct use of subject-verb agreement

Q 188

Neither you nor your sister should _____ to them.

A

talking

B

talks

C

talk

D

talked

187

SKIPPED QUESTIONS



< Previous Question

Next Question >

Comprehend key vocabulary

Q 189

My _____ says I still need glasses for my eyes.

A

chemist

B

conductor

C

keeper

D

optician

188

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 190

My father _____ (buy) us popcorn and orange juice.

A

buy

B

will buy

C

bought

D

have bought

189

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 191

Please tell us the story of Cinderella.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

190

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 192

I bought _____ umbrella to go out in the rain.

A

a

B

an

C

the

D

no article

191

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 193

My friends _____ too much.

A

worries

B

worry

C

worried

D

worrying

192

SKIPPED QUESTIONS



< Previous Question

Next Question >

Comprehend key vocabulary

Q 194

Because of his _____ habits, he could not save much money.

A

extravagant

B

frugal

C

unsavoury

D

bad

193

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 195

Which one is correct?

A

The rain stopped an hour ago.

B

The rain has stopped an hour ago

C

The rain stops an hour ago

D

The rain had stopped an hour ago

194

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 196

We have _____ small house in _____ village in _____ Netherlands.

A the... an... a

B an... a... the

C a... a... the

D a... an... the

195

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 197

zenith

A

commencement

B

height

C

pinnacle

D

level

196

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 198

Choose the correct sentence.

A

The Return of the King which is a popular movie made a huge amount of money

B

"The Return of the King", which is a popular movie made a huge amount of money.

C

"The Return of the King", which is a popular movie, made a huge amount of money.

D

"The return of the king", which is a popular movie, made a huge amount of money.

197

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 199

Neither my sisters nor my mother _____ going to sell the house.

A

is

B

am

C

are

D

had

198

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 200

I _____ (move) my chair a little closer.

A

move

B

moved

C

moves

D

moving

199

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Directions to solve

Q 201

The hotel is two blocks east of the drugstore. The market is one block west of the hotel. The drugstore is west of the market. If the first two statements are true, the third statement is

A

True

B

FALSE

C

maybe

D

unresolved

200

SKIPPED QUESTIONS



< Previous Question

Next Question >

Statements and conclusions

Q 202

Statements : All fish are tortoise. No tortoise is a crocodile. Conclusions : I. No crocodile is a fish. II. No fish is a crocodile.

A Only conclusion II follows

B Either I or II follows

C Neither I nor II follows

D Both I and II follow

201

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Essential parts

Q 203

What should come next to it Recipe

A

Desserts

B

spoon

C

Utensils

D

Cookbook

202

SKIPPED QUESTIONS



< Previous Question

Next Question >

Verbal Classification

Q 204

What was the name of Imam Bukhari (R.A)?

A

Muhammad bin Ismail

B

Muhammad Ismail

C

Muhammad Ibrahim

D

Both A and B

203

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Logical Games

Q 205

In the following letter series, some of the letters are missing, which are given in that order as one of the alternatives below it. Choose the correct alternatives

A

cbcb

B

bbcb

C

cbbc

D

bcbc

204

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Dependent Causes/ Independent Causes/

Q 206

I. The rate of sexual violence in South Africa is highest in the world. II. South Africa has the highest level of social isolation in the world.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect.
- C Both statements I and II are independent causes
- D Both statements I and II are the effects of independent cause.

205

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Statements and Actions

Q 207

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

206

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Fact Checking

Q 208

Fact 1 Pictures can tell a story Fact 2 All storybooks have a picture Fact 3 Some story books have words If the above three statements are facts then which of the following statement will also be a fact I. Pictures can tell a story better than words can II. The stories in storybooks are simple III. Some story books have both pictures and words

A

Only I

B

Only II

C

Only III

D

None of them is a fact

207

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Complete the series

Q 209

Complete the series A2.5, B5, C7.5, _____?

A

D9

B

D10

C

D9.5

D

D45

208

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Artificial Language

Q 210

Here are some words translated from an artificial language. dionot means oak tree blyonot means oak leaf blycrin means maple leaf Which word could mean "maple syrup"?

A blymuth

B hupponot

C patrician

D crinweel

209

SKIPPED QUESTIONS 

< Previous Question

Submit

Q1

The phage which causes lysis of the host cell is known as?

A

Lytic Phage

B

Lysogenic phage

C

Prophage

D

Bacteriophage

[< Previous Question](#)[Next Question >](#)

Q2

The complex that forms when a substrate binds to enzyme is called?

A

enzyme-substrate complex

B

enzyme complex

C

substrate complex

D

structural complex

[< Previous Question](#)[Next Question >](#)

Q3

In sexual reproduction, plants have diplohaplontic life cycle with alternating?

A

Haploid sporophyte and diploid gametophyte generations

B

Diploid sporophyte and diploid gametophyte generations

C

Haploid sporophyte and haploid gametophyte generations

D

Diploid sporophyte and haploid gametophyte generations

[< Previous Question](#)[Next Question >](#)

Q4

Which statement is correct?

A

In heteromorphic generations are vegetatively dissimilar

B

In isomorphic generations are vegetatively similar

C

In isomorphic generations are vegetatively dissimilar

D

both a and b

< Previous Question

Next Question >

Q5

When resources gets scarce, the population growth?

A

becomes fast

B

slows down

C

remains same

D

none of these

[< Previous Question](#)[Next Question >](#)

Q6

Which of the following is made up of an afferent pathway from a receptor and an efferent pathway to an effector?

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

[< Previous Question](#)[Next Question >](#)

Q7

Genes evolve due to which of the following?

A

artificial selection

B

random selection

C

gene selection

D

natural selection

< Previous Question

Next Question >

Q8

In cocci, three plane division result in formation of sarcine which is a

A

cuba of 8 cocci

B

square of 4 cocci

C

irregular structure

D

triangular 6 cocci

[< Previous Question](#)[Next Question >](#)

Q9

Mumps and Measles are caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

paramyxoviruses

< Previous Question

Next Question >

Q10

Enzyme-catalyzed modifications are?

A

reversible

B

irreversible

C

both a and b

D

none of these

< Previous Question

Next Question >

Q11 Which of the following is not respiration?

A Breakdown of glucose

B Formation of glucose

C Release of energy

D Exchange of gases

< Previous Question

Next Question >

Q12

Which reaction is catalyzed by the enzyme RuBisCO?

A

carboxylation of ribulose biphosphate (RuBP)

B

conversion of triose phosphate (TP) to ribulose phosphate (RuP)

C

oxidation of glycerate-3-phosphate (GP)

D

reduction of glycerate-3-phosphate (GP)

[< Previous Question](#)[Next Question >](#)

Q13

The animals in which coelom is formed due to splitting of mesoderm are known as which of the following?

A

Pseudocoelom

B

Enterocoelous

C

Amphicoelous

D

Schizocoelous

[< Previous Question](#)[Next Question >](#)

Q14

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

[< Previous Question](#)[Next Question >](#)

Q15

The absorption of water through a compound without dissolving in it is known as:

A

ascent of sap

B

plasmolysis

C

imbibition

D

guttation

[< Previous Question](#)[Next Question >](#)

Q16

Monosynaptic reflex arc consists of:

A

One sensory neuron only

B

One motor neuron only

C

two neurons, one sensory neuron, and one motor neuron

D

None of these

< Previous Question

Next Question >

Q17

Which of the following proteins does not play a functional role in creating the force-tension curve of muscle contraction?

A

titn

B

myosin

C

actin

D

all of these

< Previous Question

Next Question >

Q18

Which of the following has a morphology of a helical virus?

A

TMV

B

T4 Phage

C

Poxvirus

D

Herpes virus

[< Previous Question](#)[Next Question >](#)

Q19

How can hepatitis be controlled?

A

Adopting hygienic measures

B

Routine vaccinations

C

Screening of organ donors

D

all of the above

< Previous Question

Next Question >

Q20

Viruses are limited in their host range because?

A

can only replicate in certain types of cells

B

certain cells are susceptible to viral infections

C

They can only enter cells that have proper/specific receptors

D

They can only enter cells with glycoproteins

[< Previous Question](#)[Next Question >](#)

Q21

Cell wall of a bacterial cell is more permeable in

A

gram positive bacteria

B

gram negative bacteria

C

both a & b

D

mycoplasmas

< Previous Question

Next Question >

Q22

The main purpose of the early viral genes that are expressed is to?

A

take over the host machinery

B

synthesize nucleic acids

C

to remove coat of the virus

D

Both A and B

[< Previous Question](#)[Next Question >](#)

Q23

The cellular structure of a plant cell consists of which non-living component?

A

nucleus

B

cell wall

C

cell membrane

D

all of these

[< Previous Question](#)[Next Question >](#)

Q24

Which of the following contains genes for drug and disease resistance in bacteria?

A

plasmid

B

nucleotide

C

mesosome

D

all of these

[< Previous Question](#)[Next Question >](#)

Q25

The respiratory disorder in which cells division takes place without any control and causes tumors is known as

A

emphysema

B

asthma

C

Lung cancer

D

bronchitis

[< Previous Question](#)[Next Question >](#)

Q26

The ETC in plants consists of an electron carrier called?

A

Pq

B

Pc

C

Pt

D

Po

[< Previous Question](#)[Next Question >](#)

Q27

The element in basic structure of proteins which differentiate them from carbohydrates is?

A

C

B

H

C

N

D

none of these

[< Previous Question](#)[Next Question >](#)

Q28

Robert Koch discovered bacteria that cause

A

Tuberculosis and Typhoid

B

Tuberculosis and Measels

C

Tuberculosis and Cholera

D

All of Above

< Previous Question

Next Question >

Q30

The epiglottis, a flap of tissues covers the

A

pharynx

B

larynx

C

glottis

D

nasal cavity

[< Previous Question](#)[Next Question >](#)

Q31

In cell fractionation various components of cells including its organelles can be isolated in different layers depending upon?

A

Their physical properties like size & weight

B

Physical properties of the medium like its density.

C

Their electrical properties like their charges

D

both a and b

[< Previous Question](#)[Next Question >](#)

Q32

Final acceptor of electrons in respiratory chain is?

A

NADH

B

Cytochrome a3

C

water

D

oxygen

< Previous Question

Next Question >

Q33 cytochrome a is oxidised by which of the following in ETC?

A carbon dioxide

B oxygen

C ATP

D cytochrome a3

< Previous Question

Next Question >

Q34

Which lobe is the back part of the brain that is involved with vision?

A

Frontal

B

Parietal

C

Temporal

D

Occipital

[< Previous Question](#)[Next Question >](#)

Q35

Sperms are developed at what temperature?

A

lower than body temperature

B

higher than body temperature

C

body temperature

D

all of these

< Previous Question

Next Question >

Q36

Which product is formed when carbon dioxide combines with amino group of haemoglobin?

A

Carboxyhemoglobin

B

Plasma proteins

C

Bicarbonate ions

D

Histamines

[< Previous Question](#)[Next Question >](#)

Q38

The sites where nerve impulse is transmitted from the nerve endings to the skeleton muscle cell membranes are the?

A

z discs

B

dendrites

C

sarcomeres

D

neuromuscular junctions

< Previous Question

Next Question >

Q39

Skin colour in man is controlled by how many pairs of genes?

A

1

B

2

C

3

D

none of these

< Previous Question

Next Question >

Q40

Golgi complex is responsible for the formation of secretory granules in _____ cell.

A

Stomach

B

Liver

C

Pancreatic

D

Muscle

[< Previous Question](#)[Next Question >](#)

Q41

Concept of evolution was first presented by which of the following scientists?

A

Lamarck

B

Darwin

C

Wallace

D

Aristotle

[< Previous Question](#)[Next Question >](#)

Q42

These are crystalline, water soluble, forming pyranose rings

A

monosaccharides

B

disaccharides

C

oligosaccharides

D

polysaccharides

[< Previous Question](#)[Next Question >](#)

Q43

Transverse diffusion (flip-flop) is the movement of which of the following molecules?

A

cholesterol molecule

B

amino acid

C

protein

D

phospholipid

[< Previous Question](#)[Next Question >](#)

Q44

Example of convergent evolution is

A

forelimbs of man and bat

B

wings of birds and insects

C

Darwin's finches

D

all of above

< Previous Question

Next Question >

Q45

True breeding variety is produced by which of the following?

A

Cross fertilization

B

Self fertilization

C

both a and b

D

none of these

[< Previous Question](#)[Next Question >](#)

Q46

The affect of competitive inhibitor on enzyme activity is such that it effects which of the following?

A

increases enzyme activity

B

doesn't change enzyme activity

C

decreases enzyme activity

D

none of these

[< Previous Question](#)[Next Question >](#)

Q47

The left side of the body is controlled by:

A

left cerebral hemisphere

B

right cerebral hemisphere

C

Hippocampus

D

Corpus callosum

[< Previous Question](#)[Next Question >](#)

Q48

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

[< Previous Question](#)[Next Question >](#)

Q49

_____ refers to the breakdown or removal of the capsid

A

assembly

B

uncoating

C

integration

D

maturation

< Previous Question

Next Question >

Q50

The flow of sap from cut plants is :

A

bleeding

B

plasmolysis

C

imbibition

D

guttation

< Previous Question

Next Question >

Q51

In a certain flower, a blue petal phenotype is dominant to a white petal phenotype. If you cross a heterozygous flower with a homozygous recessive flower, what is the probability of inheritance for the white petal phenotype?

A

25%

B

50%

C

75%

D

1

< Previous Question

Next Question >

Q52

Which of the following is not a sterilization method for the control of bacteria?

A

radiation

B

filtration

C

high temperature

D

antiseptics

[< Previous Question](#)[Next Question >](#)

Q53

Saponification number referred as

A

mg of KOH required to saponify one gm of fat or oil

B

mg of KOH required to neutralize free fatty

C

mg of KOH required to neutralize the acetic

D

None of these

< Previous Question

Next Question >

Q54

Which of the following is NOT an example of evidence supporting the endosymbiotic theory?

A

Mitochondria and other plastids multiply by binary fission.

B

Mitochondria contain their own DNA, which is a single circular chromosome.

C

Mitochondria have their own ribosomes, which are 70s.

D

none of these

[< Previous Question](#)[Next Question >](#)

Q55

The flap like structure found in larynx is called:

A

glottis

B

epiglottis

C

larynx

D

vocal cords

[< Previous Question](#)[Next Question >](#)

Q56

Which of the following is NOT a class of enzyme?

A

ligase

B

hydrolyse

C

isomerase

D

pyrimidine complex

[< Previous Question](#)[Next Question >](#)

Q57

The part of chlorophyll molecule is embedded in the core of thylakoid membrane which is?

A

Hydrophilic

B

Hydrophobic

C

both of these

D

none of these

[< Previous Question](#)[Next Question >](#)

Q58

Phylum Porifera is classified based on which of the following characteristic?

A

branching

B

symmetry

C

spicules

D

reproduction

[< Previous Question](#)[Next Question >](#)

Q59

Damage to one of the following immediately kills the cell whether its prokaryotic or eukaryotic?

A

nucleus

B

cell membrane

C

mitochondria

D

all of these

[< Previous Question](#)[Next Question >](#)

Q60

Acetyl CoA completely oxidizes to Carbon dioxide and liberate ____

A

NADH and FADH

B

NADP and FADP

C

ATP

D

ATP, NADH and FADH₂

< Previous Question

Next Question >

Q61

The SI unit of power is?

A

Hz

B

Sec

C

Watt

D

Joules

< Previous Question

Next Question >

Q62

The object oscillates due to:

A

a restoring force

B

its weight

C

centripetal force

D

force of friction

< Previous Question

Next Question >

Q63

In a stationary wave, the distance between a node and an adjacent antinodes is equal to:

A

 λ

B

 2λ

C

 $\lambda/2$

D

 $\lambda/4$

< Previous Question

Next Question >

Q64

Radioactive radiations are used to destroy

A

healthy cells

B

cancerous cells

C

bacteria

D

damaged organs

< Previous Question

Next Question >

Q65

Velocity is defined as:....

A

distance divided by the time during which the displacement occurs

B

distance travelled in a specific direction

C

displacement divided by the time during which the displacement occurs

D

displacement travelled in a specific direction

< Previous Question

Next Question >

Q66

What is the strength of magnetic field known as _____

A

flux

B

density

C

magnetic strength

D

magnetic flux density

< Previous Question

Next Question >

Q67

The value of Boltzmann's constant, k_B , is:

A

 $8.314 \text{ J/mol}^\circ\text{K}$

B

 $1.38 \times 10^{-23} \text{ J/K}$

C

 $6.63 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

D

 $1.6 \times 10^{-19} \text{ C}$

< Previous Question

Next Question >

Q68

Which of the following is equivalent to a temperature 150K?

A

123 C

B

-123 C

C

423 C

D

-423 C

< Previous Question

Next Question >

Q69

Weber is the unit of _____

A

magnetic flux

B

electric flux

C

both a or b

D

none of these

< Previous Question

Next Question >

Q70

The relation between linear and angular velocity is:

A

$$\mathbf{v} = \mathbf{r} \times \boldsymbol{\omega}$$

B

$$\mathbf{v} = \boldsymbol{\omega} \times \mathbf{r}$$

C

$$\boldsymbol{\omega} = \mathbf{v} \times \mathbf{r}$$

D

$$\mathbf{r} = \mathbf{v} \times \boldsymbol{\omega}$$

< Previous Question

Next Question >

Q71

Inertial frame has :

A

Constant velocity

B

Zero velocity

C

Zero acceleration

D

All of these

< Previous Question

Next Question >

Q72

Consider a drop of water of mass 1 gm falling from a height of 1 km. It hits the ground with a speed of 50 m/s, take $g = 10 \text{ m/s}^2$. the work done by gravitational force is

A

1.25 J

B

100 J

C

10 J

D

-10 J

< Previous Question

Next Question >

Q73

The hot resistance of the bulb's filament is higher than its cold resistance because the temperature coefficient of the filament is

A

Zero

B

Negative

C

Positive

D

About 2 ohms per degree

< Previous Question

Next Question >

Q74 For currents changing with time will produce___ field

A electrostatic

B magnetostatic

C electromagnetic

D none of these

< Previous Question

Next Question >

Q75 Which of this is constant in adiabatic process

A total heat

B work done

C Entropy

D both a) and c)

< Previous Question

Next Question >

Q76

If a proton, alpha particle and photon moving with same velocity enter in uniform magnetic field then which particle will deflect more

A

proton

B

alpha particle

C

photon

D

all of these

< Previous Question

Next Question >

Q77

_____ is often used to cure skin cancer

A

cobalt-60

B

radon gas

C

iodine-131

D

strontium-90

< Previous Question

Next Question >

Q78

If a transverse wave travelling in a denser medium is incident on a rarer medium, it is ...

A

reflected without any change in phase

B

reflected with phase change of 90 deg

C

reflected with phase change of 180 deg

D

reflected with phase change of 270 deg

[< Previous Question](#)[Next Question >](#)

Q79

Spectra corresponding to sodium vapour lamp is

A

band spectra

B

line spectra

C

emission spectra

D

absorption spectra

< Previous Question

Next Question >

Q80

A circular loop of radius 2 m placed having area in the direction of magnetic field of 100 T, flux will be

A

1296 wb

B

12.96 wb

C

1190 wb

D

1426 wb

[< Previous Question](#)[Next Question >](#)

Q81

A liquid has specific heat capacity c . The rate of change in temperature of liquid is R . The rate at which heat is transferred from the liquid is P . What is the mass of the liquid?

A

$$P \text{ ----- } cR$$

B

$$PR \text{ ----- } c$$

C

$$Pc \text{ ----- } R$$

D

$$cPR$$

< Previous Question

Next Question >

Q82

The use of a capacitor filter in a rectifier circuit gives satisfactory performance only when the load

A

Current is high

B

Current is low

C

Voltage is high

D

Voltage is low

[< Previous Question](#)[Next Question >](#)

Q83

Henry is unit of

A

self inductance only

B

mutual inductance

C

both a) and b)

D

emf

< Previous Question

Next Question >

Q84

The wavelength of beta rays is measured by

A

interference

B

polarization

C

absorption

D

diffraction

[< Previous Question](#)[Next Question >](#)

Q85

In a standing waves, the distance between a node and consecutive anti-node is:

A

equal to one wavelength

B

equal to two wavelength

C

equal to half of wavelength

D

equal to quarter of wavelength

[< Previous Question](#)[Next Question >](#)

Q86

A gas expands from V_1 to V_2 . The amount of work done is greatest in

A

Adiabatic

B

Isobaric

C

Isochoric

D

Isothermal

[< Previous Question](#)[Next Question >](#)

Q87

What is the measure in radians of the angle $A = 330^\circ$?

A

 $11\pi/3$

B

 $7\pi/4$

C

 $7\pi/6$

D

 $11\pi/6$

< Previous Question

Next Question >

Q88

Energy of photon is directly proportional to its :

A

Temperature

B

Frequency

C

Wave length

D

None of the above

< Previous Question

Next Question >

Q89

average velocity is defined as

A

displacement/time

B

distance/time

C

distance*time

D

displacement*time

< Previous Question

Next Question >

Q90 Average dc Voltage across the load in terms of V_{max} is

A $0.532 V_{max}$

B $0.637 V_{max}$

C $0.759 V_{max}$

D $0.437 V_{max}$

< Previous Question

Next Question >

Q91 What is the frequency of a photon whose energy is 66.3 eV

A $12.6 \times 10^6 \text{ Hz}$

B $19.6 \times 10^6 \text{ Hz}$

C $1.6 \times 10^{16} \text{ Hz}$

D $81.6 \times 10^6 \text{ Hz}$

< Previous Question

Next Question >

Q92

Electric charge in uniform motion produces

A

electric field

B

magnetic field

C

both of these

D

none of these

< Previous Question

Next Question >

Q93

What is the phase difference between the center of compression and the center of rarefaction in longitudinal wave.

A

0 deg

B

45 deg

C

90 deg

D

180 deg

< Previous Question

Next Question >

Q94

Work is said to be done when a body move through certain distance by the action of

A

energy

B

force

C

momentum

D

power

[< Previous Question](#)[Next Question >](#)

Q95

Ohm's law is true for

A

Metallic conductors at low temperature

B

Metallic conductors at high temperature

C

For electrolytes, when current passes through them

D

For diode when current flows

< Previous Question

Next Question >

Q96

Identify the factor on which mutual inductance does not depend.

A

relative orientation

B

relative separation of two coils

C

reciprocity

D

permeability of the core material

[< Previous Question](#)[Next Question >](#)

Q97

Which water is used to reduce the speed of fast moving neutrons

A

Salty water

B

Pure water

C

heavy water

D

muddy water

[< Previous Question](#)[Next Question >](#)

Q98

An ideal gas of n moles is enclosed in a container at a constant pressure p . The graph between volume of gas and its absolute temperature is a straight line. What is the gradient of the graph?

A

$$nR/p$$

B

$$nR/p$$

C

$$n/pR$$

D

$$np/R$$

< Previous Question

Next Question >

Q99

A constant force is applied on a body of 2 kg to give it a displacement $s = t^2/2$. Work done by agent applying the force upto time $t=3$ sec is

A

3 J

B

9 J

C

18 J

D

2 J

< Previous Question

Next Question >

Q100

How much energy is required to raise the temperature of 5.00 kg of lead from 20.0°C to its melting point of 327°C? The specific heat of lead is 128 J/kg · °C.

A

 $1.96 \times 10^5 \text{ J}$

B

 $4.04 \times 10^5 \text{ J}$

C

 $1.07 \times 10^5 \text{ J}$

D

 $8.15 \times 10^4 \text{ J}$

< Previous Question

Next Question >

Q101

Emf produced in generator is

A

 $NwAB\cos(wt)$

B

 $NwAB\tan(wt)$

C

 $NwAB\cot(wt)$

D

 $NwAB\sin(wt)$

< Previous Question

Next Question >

Q102

_____ are such nuclei of an element that have the same mass number A , but have different charge number Z

A

isotopes

B

isobars

C

isomers

D

isotherms

< Previous Question

Next Question >

Q103

A pipe is open at both ends. A stationary wave is formed in the air of the pipe. Which statement is true:

A

there is always a central antinode

B

there is always a central node

C

the sum of number of nodes and the number of antinodes is always an even number

D

the sum of number of nodes and the number of antinodes is always an odd number

[< Previous Question](#)[Next Question >](#)

Q104

How many milligrams of tritium will remain after 49.2 years if the starting amount is 32 mg? The half-life of tritium is 12.3 years

A

8mg

B

2mg

C

1mg

D

4mg

< Previous Question

Next Question >

Q105

Half wave voltage multiplier can provide any degree of voltage multiplication by cascading diodes and capacitors.

A

any doubler

B

any tripler

C

any multiplication

D

none of them

[< Previous Question](#)[Next Question >](#)

Q106

The x-ray photon is uncertain when it is

A

emitted

B

absorbed

C

traveling

D

all of these

< Previous Question

Next Question >

Q107

If the clouds of earth behaves like a black body what will happen

A

no light will reach on surface

B

extra light will reach the surface

C

nothing will happen

D

some will reflect some will absorbed

[< Previous Question](#)[Next Question >](#)

Q108

When a stone is thrown horizontally with 2 m/s from a building of height 5 m then just before hitting ground its acceleration is

A

12 m/s²

B

13 m/s²

C

9.8 m/s²

D

7.6 m/s²

< Previous Question

Next Question >

Q109

The gas laws describes the _behavior of gases

A

abrupt

B

non-uniform

C

uniform

D

disordered

< Previous Question

Next Question >

Q110 Metallic character depends on _____?

A Electron Affinity

B Ionization energy

C Electronegativity

D All of these

< Previous Question

Next Question >

Q111

The force which holds the atoms within the molecule is called as ____?

A

Intermolecular force

B

Chemical bond

C

London force

D

Polar force

[< Previous Question](#)[Next Question >](#)

Q112

Positive rays are produced when _____ strike the molecules of a gas in a discharge tube

A

low speed neutrons

B

high speed neutrons

C

low speed electrons

D

high speed electrons

[< Previous Question](#)[Next Question >](#)

Q113

When rate of reaction is measured by the amount of radiation absorbed it is called

A

Optical Rotation method

B

Electrical Conductivity method

C

Refractometry Method

D

Spectrometry

[< Previous Question](#)[Next Question >](#)

Q114

First member of alkynes is called as _____?

A

Ethylene

B

Acetylene

C

Acetone

D

Ethene

< Previous Question

Next Question >

Q115

What is the Hybridization of carbon atom in Aldehyde group?

A

Sp²

B

Sp³

C

Sp

D

dsp²

< Previous Question

Next Question >

Q116

Formation of Hydrogen molecule according to VBT theory involves overlap of

A

1s orbital

B

2s orbital

C

2p orbital

D

2px orbital

< Previous Question

Next Question >

Q117

Exothermic Reactions heat is

A

Taken in

B

Give out to surroundings

C

Neither given nor lost

D

None of these

< Previous Question

Next Question >

Q118

The efficiency of a chemical reactions can be checked by calculating its _yields

A

percentage

B

actual

C

theoretical

D

all of these

[< Previous Question](#)[Next Question >](#)

Q119 Standard electrode Potential is denoted by

A

E

B

E^{-1}

C

E^0

D

∂

< Previous Question

Next Question >

Q120

Compounds having benzene ring are called as _____?

A

Alicyclic

B

Aliphatic compounds

C

Aromatic compounds

D

Acyclic compounds

< Previous Question

Next Question >

Q121

Cleavage Plane appears when a crystal is

A

Melted

B

Broken

C

Heated

D

Cooled

< Previous Question

Next Question >

Q122

What is the name of this compound?

A

Ethyl chloride

B

Ethene chlorine

C

Chloro ethane

D

Vinyl chloride

< Previous Question

Next Question >

Q123

The number of charges present on a cation depends on number of electron _by the atom

A

gain

B

lost

C

accept

D

produced

[< Previous Question](#)[Next Question >](#)

Q124

What is the value of molecularity and order of S_N1 reactions?

A

2,1

B

1,1

C

0,1

D

0,2

< Previous Question

Next Question >

Q125

Which one of the following is correct about heat energy?

A

Path function

B

State function

C

Move from cold to hot body

D

Property of a system

[< Previous Question](#)[Next Question >](#)

Q126

What is the IUPAC name of, $\text{ClCH}_2\text{CH}_2\text{COOH}$?

A

3-Chloropropanoic acid

B

2-Chloropropanoic acid

C

2-Chloro-1-propanoic acid

D

Propyl carboxylic acid chloride

< Previous Question

Next Question >

Q127

Due to which of the following forces present in water aquatic life is protected in Cold climate ?

A

Dipole dipole forces

B

Debye forces

C

H-bonding

D

London dispersion forces

[< Previous Question](#)[Next Question >](#)

Q128

The shape of crystal in which it usually grows is called its

A

size

B

capacity

C

habit

D

property

[< Previous Question](#)[Next Question >](#)

Q129

Electron affinity of an atom is the energy released when an electron _to an empty or partially filled orbital of an atom to form____

A

removed,cation

B

added,cation

C

added,anion

D

removed,anion

< Previous Question

Next Question >

Q130

Carboxylic acids form dimer due to_____?

A

Small sizes

B

Polarity of C-O bond

C

H-bonding

D

Dipole-Dipole interactions

< Previous Question

Next Question >

Q131

Addition of 2% gypsum in cement

A

Triggers hydration

B

Triggers hydrolysis

C

Prevents rapid hardening

D

All of the above

< Previous Question

Next Question >

Q132

Phenol is changed into cyclohexanol by the following method

A

Hydrogenation

B

Reaction with formaldehyde

C

Nitration

D

Halogenation

[< Previous Question](#)[Next Question >](#)

Q133

Suppression in ionization is done for

A

Weak Electrolyte

B

Strong Electrolyte

C

Only Reactants

D

Dissociated Ions

< Previous Question

Next Question >

Q134

On which factor boiling point of a liquid does not depends?

A

External pressure

B

Vapour pressure

C

Amount of liquid

D

Intermolecular forces

[< Previous Question](#)[Next Question >](#)

Q135

The expression for the radius of n th orbit of hydrogen atom was derived by

A

Planks

B

Bohr

C

Rutherford

D

Einstein

[< Previous Question](#)[Next Question >](#)

Q136

Reaction of vinyl acetylene with HCl produces?

A

Polyvinyl polymer

B

Polyvinyl Acetylene

C

Neoprene

D

Chloroprene

< Previous Question

Next Question >

Q137

Which one of the following has highest number of unpaired electrons?

A

 Fe^{2+}

B

 Mn^{2+}

C

 Cr^{2+}

D

 Zn^{2+}

< Previous Question

Next Question >

Q138

In which of the following reagent Cupric citrate complex is formed?

A

Fehling's solution test

B

Benedict's solution test

C

Silver mirror test

D

sodium nitroprusside test

[< Previous Question](#)[Next Question >](#)

Q139

The hydrolysis of urea is catalyzed by:

A

Amylase

B

Urease

C

Pectin

D

None

< Previous Question

Next Question >

Q140

Production of Ammonia by Haber process is made economical by using

A

Law of Mass Action

B

Catalyst

C

Le chatelier's Principle

D

All of these

< Previous Question

Next Question >

Q141 Alicyclic compounds are similar in properties to_____?

A Heterocyclic compounds

B Aliphatic compounds

C Acyclic compounds

D Aromatic compounds

< Previous Question

Next Question >

Q142

Before giving condensation product , ammonia and its derivatives produces _____ when react with carbonyls?

A

Alcohols

B

Carboxyl alcohol

C

Amino alcohol

D

None of these

< Previous Question

Next Question >

Q143

Instantaneous dipole is produced when _____?

A

Two polar molecules comes closer

B

Two non polar molecules comes closer

C

Polar and nonpolar molecule comes closer

D

All of these

< Previous Question

Next Question >

Q144

Energy is absorbed

A

In Bond Breaking

B

In endothermic reactions

C

In Bond Formation

D

Both A and B

< Previous Question

Next Question >

Q145

In energy terms, the elements at high energy state are

A

electronegative elements

B

electropositive elements

C

neutral elements

D

charged elements.

[< Previous Question](#)[Next Question >](#)

Q146

Non- protein part co- factor includes organic & metallic organic molecule & sometimes_____.

A

Vitamins

B

DNA

C

Coenzyme

D

None

< Previous Question

Next Question >

Q147

The ratio of PV to T is a constant quantity I-e

A

k

B

R

C

n

D

K

< Previous Question

Next Question >

Q148

If 9.8 g of sulfuric acid dissolved in excess quantity of water, it will yield _____ moles of hydrogen ion (H^+) and _____ mole of sulphate ions (SO_4^{2-})

A

0.1, 0.2

B

0.1, 0.3

C

0.2, 0.4

D

0.2, 0.1

< Previous Question

Next Question >

Q149

propene exhibit

A

Cis-isomerism

B

Trans-isomerism

C

geometric isomerism

D

none

< Previous Question

Next Question >

Q150

Which of the following has greater polarizability?

A

 N_2

B

 Cl_2

C

 O_2

D

 I_2

< Previous Question

Next Question >

Q151

Lighter the Oxidation state of Metal more will be_____?

A

Acidity of metal

B

Polarization power

C

Basicity of metal

D

None of these

< Previous Question

Next Question >

Q152

Which of the following is formed during S_N1 reactions?

A

Secondary carbocation

B

Primary carbocation

C

Tertiary carbocation

D

Methyl carbocation

< Previous Question

Next Question >

Q153

The alcohols which are resistant to oxidation reactions are

A

primary alcohols

B

secondary alcohol

C

tertiary alcohol

D

all of above

[< Previous Question](#)[Next Question >](#)

Q154

For balancing oxygen and hydrogen atoms in acids or neutral solutions

A

Water can be added

B

H⁺ ions can be added

C

Both A and B

D

OH⁻ ions can be added

[< Previous Question](#)[Next Question >](#)

Q155

Enzymes that catalyze the addition of ammonia, water or carbon dioxide to double bond or their removal are called_____.

A

Lyases

B

Hydrolases

C

Ligases

D

Transferases

< Previous Question

Next Question >

Q156

An orbital can accommodate at the most _electrons

A

2

B

14

C

1

D

6

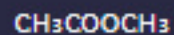
< Previous Question

Next Question >

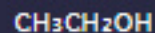
Q157

Which of the following evolve Carbon Dioxide with sodium bicarbonate?

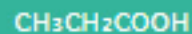
A



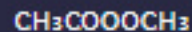
B



C



D



< Previous Question

Next Question >

Q158

After the hydrolysis of ester the change in concentration of acid at different intervals is calculated by

A

Titration with KMnO_4

B

Titration With Standard Alkali

C

Distillation

D

Evaporation of mixture

[< Previous Question](#)[Next Question >](#)

Q159

What is the enthalpy of solution of NH_4Cl ?

A

15 KJ/mol

B

-17kJ/mol

C

16.2 kJ/mol

D

-16.5kJ/mol

< Previous Question

Next Question >

Q160

According to VSEPR theory ,the repulsions are called

A

joule repulsion

B

planks repulsion

C

Van der waals repulsion

D

J.J.Thomson repulsion

[< Previous Question](#)[Next Question >](#)

Q161

Choose the correct sentence.

A

Does your train leave before eight o'clock?

B

Does your train leave before eight o clock?

C

does your train leave before eight o'clock

D

does your train leave before eight o'clock?

< Previous Question

Next Question >

Q162

Spring is _____. It will be warmer soon.

A

on the way

B

to be coming

C

eventually

D

prepared now

[< Previous Question](#)[Next Question >](#)

Q163

She ran with quick steps to the house when it _____ (start)raining.

A

start

B

starting

C

started

D

was started

[< Previous Question](#)[Next Question >](#)

Q164

One of my sisters _____ going on a trip to France.

A

is

B

are

C

has

D

have

< Previous Question

Next Question >

Q165

I can't think of a _____ example.

A

correct

B

suitable

C

answerable

D

needed

< Previous Question

Next Question >

Q166

My brother and sister _____ basketball every evening.

A

practises

B

practise

C

practising

D

are practising

[< Previous Question](#)[Next Question >](#)

Q167

The next-door neighbour's dog is _____ loud. He barks constantly throughout the night.

A

quite

B

quit

C

quiet

D

barely

< Previous Question

Next Question >

Q168

Neither you nor your sister should _____ to them.

A

talking

B

talks

C

talk

D

talked

< Previous Question

Next Question >

Q169

My _____ says I still need glasses for my eyes.

A

chemist

B

conductor

C

keeper

D

optician

< Previous Question

Next Question >

Q170

My father _____ (buy) us popcorn and orange juice.

A

buy

B

will buy

C

bought

D

have bought

< Previous Question

Next Question >

Q171

Please tell us the story of Cinderella.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

< Previous Question

Next Question >

Q172

I bought _____ umbrella to go out in the rain.

A

a

B

an

C

the

D

no article

< Previous Question

Next Question >

Q173

My friends _____ too much.

A

worries

B

worry

C

worried

D

worrying

< Previous Question

Next Question >

Q174

Because of his _____ habits, he could not save much money.

A

extravagant

B

frugal

C

unsavoury

D

bad

[< Previous Question](#)[Next Question >](#)

Q175

Which one is correct?

A

The rain stopped an hour ago.

B

The rain has stopped an hour ago

C

The rain stops an hour ago

D

The rain had stopped an hour ago

< Previous Question

Next Question >

Q176

We have _____ small house in _____ village in _____ Netherlands.

A

the... an... a

B

an... a... the

C

a... a... the

D

a... an... the

[< Previous Question](#)[Next Question >](#)

Q177

zenith

A

commencement

B

height

C

pinnacle

D

level

< Previous Question

Next Question >

Q178

Choose the correct sentence.

A

The Return of the King which is a popular movie made a huge amount of money

B

"The Return of the King", which is a popular movie made a huge amount of money.

C

"The Return of the King", which is a popular movie, made a huge amount of money.

D

"The return of the king", which is a popular movie, made a huge amount of money.

< Previous Question

Next Question >

Q179

Neither my sisters nor my mother _____ going to sell the house.

A

is

B

am

C

are

D

had

< Previous Question

Next Question >

Q180

I _____ (move) my chair a little closer.

A

move

B

moved

C

moves

D

moving

< Previous Question

Next Question >

Q181

The hotel is two blocks east of the drugstore. The market is one block west of the hotel. The drugstore is west of the market. If the first two statements are true, the third statement is

A

True

B

FALSE

C

maybe

D

unresolved

< Previous Question

Next Question >

Q182

Statements : All fish are tortoise. No tortoise is a crocodile. Conclusions : I. No crocodile is a fish. II. No fish is a crocodile.

A

Only conclusion II follows

B

Either I or II follows

C

Neither I nor II follows

D

Both I and II follow

[< Previous Question](#)[Next Question >](#)

Q183

What should come next to it Recipe

A

Desserts

B

spoon

C

Utensils

D

Cookbook

< Previous Question

Next Question >

Q184

What was the name of Imam Bukhari (R.A)?

A

Muhammad bin Ismail

B

Muhammad Ismail

C

Muhammad Ibrahim

D

Both A and B

< Previous Question

Next Question >

Q185

In the following letter series, some of the letters are missing, which are given in that order as one of the alternatives below it. Choose the correct alternatives

A

cbcb

B

bbcb

C

cbbc

D

bcbc

< Previous Question

Next Question >

Q186

I. The rate of sexual violence in South Africa is highest in the world. II. South Africa has the highest level of social isolation in the world.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

[< Previous Question](#)[Next Question >](#)

Q187

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

< Previous Question

Next Question >

Q188

Fact 1 Pictures can tell a story Fact 2 All storybooks have a picture Fact 3 Some story books have words If the above three statements are facts then which of the following statement will also be a fact I. Pictures can tell a story better than words can II. The stories in storybooks are simple III. Some story books have both pictures and words

A

Only I

B

Only II

C

Only III

D

None of them is a fact

< Previous Question

Next Question >

Q189

Complete the series A2.5, B5, C7.5, ____?

A

D9

B

D10

C

D9.5

D

D45

< Previous Question

Next Question >

Q190

Here are some words translated from an artificial language. dionot means oak tree blyonot means oak leaf blycrin means maple leaf Which word could mean "maple syrup"?

A

blymuth

B

hupponot

C

patrician

D

crinweel

< Previous Question

Next Question >

Q191

The human naked eye can differentiate between two points which are how much apart?

A

1 mm

B

0.1 mm

C

2 nm

D

1 dm

[< Previous Question](#)[Next Question >](#)

Q192

Half wave rectifier has _____ diodes

A

1

B

2

C

3

D

4

< Previous Question

Next Question >

Q193

An electric filament bulb can be worked from

A

D.C. supply only

B

A.C. supply only

C

Battery supply only

D

All above

< Previous Question

Next Question >

Q194

All the animals of the grade radiata are which of the following?

A

Unicellular

B

Triploblastic

C

both a and b

D

Diploblastic

[< Previous Question](#)[Next Question >](#)

Q195

Angular displacement becomes zero when

A

velocity is zero

B

radial distance is zero

C

any of a or b

D

it can never be zero

< Previous Question

Next Question >

Q196

Buffer solutions resist change in their

A

temperature

B

solubility

C

volatility

D

pH

< Previous Question

Next Question >

Q197

Which one of the following is a photoconductor?

A

silver

B

gold

C

selenium

D

mercury

< Previous Question

Next Question >

Q198

Which one of the following animals is not a tetrapod?

A

snake

B

cow

C

mantis shrimp

D

human

< Previous Question

Next Question >

Q199

The sperm duct opens into which of the following?

A

ureter

B

urethra

C

testes

D

all of these

< Previous Question

Next Question >

Q200

Four wires of same material, the same cross-sectional area and the same length when connected in parallel give a resistance of 0.25 ohms. If the same four wires are connected in series the effective resistance will be

A

1 ohm

B

2 ohm

C

3 ohm

D

4 ohm

< Previous Question

Next Question >

Q201

Lactoglobulin a simple protein is found in muscles as well as in _____ too.

A

Fish

B

Liver

C

Brain

D

Plants

[< Previous Question](#)[Next Question >](#)

Q202

The sarcoplasmic reticulum is a special type of endoplasmic reticulum. Based on this information, which of the following is associated with a sarcoplasmic reticulum?

A

Network of tubules

B

vesicles

C

digestive enzymes

D

both a and b

< Previous Question

Next Question >

Q203

Which of the following is true about muscle structure?

A

Myofibrils make up about 15% of the contents of a muscle fibre.

B

Actin filaments are arranged so that 6 actin filaments surround each myosin filament.

C

Both A and B are correct

D

None of these

[< Previous Question](#)[Next Question >](#)

Q204

Which term refers to the formation of egg cells that begins in the developing ovaries of a female fetus?

A

Meiosis

B

Fertilization

C

Ovulation

D

Oogenesis

[< Previous Question](#)[Next Question >](#)

Q205

Which of the following is true about muscle fibres?

A

better adapted for slow sustained activities

B

for energy, they depend on anaerobic procedures

C

myoglobin content is high

D

possess mitochondria in huge numbers

[< Previous Question](#)[Next Question >](#)

Q206

Electric power is

A

rate of electric work done per unit time

B

voltage per unit time

C

electric charge per unit time

D

current per unit time

< Previous Question

Next Question >

Q207

Steady current does not change with respect to _____.

A

conductor

B

source

C

time

D

potential difference

< Previous Question

Next Question >

Q208

Sun spectra also has dark lines in pattern which corresponds to

A

absorption

B

emission

C

release

D

free particle

[< Previous Question](#)[Next Question >](#)

Q209

Atomic radii can be determined by measuring the distance b/w centers of ____ atoms

A

opposite .

B

adjacent

C

parallel

D

equal

[< Previous Question](#)[Next Question >](#)

Q210

Half Life $\propto 1/a^{(n-1)}$ where n is

A

Number of reactant molecules

B

Number of moles of reactants

C

Number of moles of products

D

Order of Reactions

< Previous Question

Next Question >

Q210

Half Life $\propto 1/a^{(n-1)}$ where n is

A

Number of reactant molecules

B

Number of moles of reactants

C

Number of moles of products

D

Order of Reactions

< Previous Question

Next Question >